

## ABSTRACT OF THE DISCLOSURE

The present invention provides immunocontraceptive  
5 vaccines comprising a genetically engineered plant that has been  
modified to produce the sperm-specific protein lactate  
dehydrogenase-C (LDH-C). When animals such as rodents eat this  
plant, their immune systems produce antibodies that attack their  
sperms. Not only would the males have less viable sperm, the  
10 females would also have antibodies to sperm entering their  
reproductive systems. Immunocontraception is an attractive  
method for reducing the population size of animals with high  
fecundity, and sterilizing animals using such immunocontraceptives  
can reduce targeted animal populations to acceptable levels in an  
15 efficient, cost-effective, humane and, importantly, a species-specific  
manner.